

**AN APPARATUS FOR FABRICATING NANOSCALE
PATTERNS IN LIGHT CURABLE COMPOSITIONS
USING AN ELECTRIC FIELD**

ABSTRACT OF THE DISCLOSURE

[0033] The present invention is directed to an apparatus for patterning a liquid on a substrate, with the apparatus including, a template having a pair of spaced-apart recessions with a protrusion disposed therebetween, with the protrusion being spaced-apart from the substrate a first distance and each of the pair of spaced-apart recessions being spaced-apart from the substrate a second distance, with the second distance being greater than the first distance; and a source of voltage in electrical communication with the template to produce an electric field between the template and the substrate, with a strength of the electrical field being inversely proportional to the first and second distances.